Claims

1. A new and distinct genotype of *Artemisia annua* 'CIM-Arogya', developed through marker assisted breeding, possessing the following combination of characters:

5 - Genus Artemisia
- Species annua
- Family Asteraecae
- Common name
- Plant height 280-305 cm
0 - Plant canopy Oval

- Growth habit Erect

-Branching sympodial branching pattern

15 -Stem: ingle, round hard woody green (137D)
Stem width 5-12 cm (app)

- Number of Branches:-

-primary branches: -55-65

-Secondary branches per primary branch: -50-60--Tertiary branches per secondary branch: -37-45

-Range of length of Internodes

25

-Main stem – 4-6cm at bottom, 10-12cm at middle, 2-5 cm at the top
-Primary branch 2-5 cm at bottom, 8-11 cm at middle, 2-4 cm at the top
-Secondary branch 8-11 cm at the bottom, 5-7 cm at the middle, 1-3 cm at the top
-Tertiary branch 1-3cm at the middle, 0.5-1.5 cm at the

30 top

-Leaf- Green (137 B)
-Texture- Thin and flexible
-Surface — Smooth non pubescent

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Pinnately compound leaf
-Margin- Pinnetisected
-Tip- Acute
-Petiol length- 2.5-3.50 cm

-Lamina length- 5-7cm 40 -Lamina width- 4-5cm

-Inflorescence- Capitulum (head)

-Flower- Arranged in whorls. Colour yellow group (7A)

-Two types of flowers Disc florets and Ray florets.

45 -Disc florets are bisexual and ray florets are unisexual (female)

-Colour Greenish yellow 2-3mm in diameter

-Receptacles Glabrous

-Calyx Bracteates

-Corolla Sympelatous, tubular top split in to 5 lobes in Disc florets and 2-

3

lobes in Ray florets (legulate)

5

-Androecium 5 stamens, Anther lobes are fused and filaments are free

-Colour Yellowish

-Gynoecium Unilocular, inferior bifid stigma.

-Colour yellowish
10 -Time of flowering-Seed setting 240 days (app)
-Artemisinin content 0.9 to 1.1%

-Artemesinic acid 0.002- 0.004% -Oil content 0.9 to 1.1% 0.002- 0.004%

- -alternate deeply dissected aromatic leaves ranging between 2.5 to 5.0 cm in length.
 - -tiny yellow nodding flowers (capitula)
 - -capitula in loose panicle containing numerous central bisexual florets and marginal pistillate florets
 - -receptacle is glabrous
- 20 -florets and receptacle bear abundant 10-celled biseriate trichomes
 - -globular canopy
 - -dry leaf yield of about 50 Q per hectare
 - flowers (7A) arranged in a head or Capitulum.